

Title (en)
Transpired solar collector chimney tower

Title (de)
Wasserabgebender Sonnenkollektorschornsteinturm

Title (fr)
Collecteur solaire tour de cheminée transpirant

Publication
EP 3002454 A1 20160406 (EN)

Application
EP 14191384 A 20141031

Priority
US 201414504740 A 20141002

Abstract (en)
A transpired solar collector chimney tower is provided. Specifically, disclosed herein is a system that uses solar radiation for generating electricity comprising: a transpired solar air heating collector device comprising: a heat absorbing roof; an interior space adjacent the heat absorbing roof; and, a plurality of air inlet openings distributed over the heat absorbing roof and configured to allow ambient air to flow from outside the heat absorbing roof into the interior space; a chimney tower extending from the transpired solar air heating collector device and connected to the interior space such that heated air in the interior space flows from the interior space through the chimney tower; and, one or more turbines positioned within one or more of the interior space and the chimney tower and on a path of airflow from the interior space through the chimney tower.

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Citation (applicant)
• US 4899728 A 19900213 - PETER ROLF W [CH], et al
• US 4934338 A 19900619 - HOLLIICK JOHN C [CA], et al

Citation (search report)
• [A] DE 10023424 A1 20011115 - MONCORPS HORST [DE]
• [A] US 2008314058 A1 20081225 - JONES DARRYL [AU], et al
• [A] FR 2953881 A1 20110617 - DIVER MARIUS [FR]
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Designated contracting state (EPC)
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Designated extension state (EPC)
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DOCDB simple family (application)
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